

Illinois Environmental Protection Agency Permit Section, Division of Water Pollution Control P.O. Box 19276 Springfield, Illinois 62794-9276

| For IEPA Use: | |
|---------------|--|
| | |
| | |
| | |
| | |
| | |
| | |
| | |

Application for Permit or Construction Approval WPC-PS-1

| 1. | Owner Name: V3 Monee, LLC | | | | | | | |
|------------|---|--|--|--|--|--|--|--|
| | Name of Project: Ironhorse | | | | | | | |
| | Township: Moneë County: Will | | | | | | | |
| 2. | Brief Description of Project: | | | | | | | |
| | A sanitary sewer extension with a lift station and force main serving the Ironhorse subdivision. | | | | | | | |
| 3. | Documents Being Submitted: If the Project involves any of the items listed below, submit the corresponding schedul and check the appropriate boxes. | | | | | | | |
| | Private Sewer Connection/Extension Sewer Extension Construct Only Sewage Treatment Works D Industrial Treatment/Pretreatment Excess Flow Treatment Excess Flow Treatment Excess Flow Treatment For Erosion Control Fast Track Service Connection FTP Trust Disclosure Plans: Title Final Engineering Plans for Ironhorse - Offsite Utility Extension | | | | | | | |
| | No. of Pages: 11 | | | | | | | |
| | Specifications: Title N/A | | | | | | | |
| | No. of Books/Pages: | | | | | | | |
| | Other Documents:(Please Specify) | | | | | | | |
| | 1 Illinois Historic Preservation Agency approval letter: Yes ☑ No □ | | | | | | | |
| 4. | Land Trust: Is the project identified in item number 1 herein, for which a permit is requested, to be constructed on land which is the subject of a trust? Yes \(\bigcap \text{No } \(\bigcap \extstyle \) | | | | | | | |
| | If yes, Schedule T (Trust Disclosure) must be completed and item number 7.1.1 must be signed by a beneficiary, trustee or trust officer. | | | | | | | |
| 5 . | This is an Application for (Check Appropriate Line): | | | | | | | |
| | A. Joint Construction and Operating Permit B. Authorization to Construct (See Instructions) NPDES Permit No. (L00 | | | | | | | |

| 6. | Certifications and Approval: | |
|----|--|--|
| | 6.1 Certificate by Design Engineer (When required: refer to instructions) I hereby certify that I am familiar with the information contained in this application indicated above, and that to the best of my knowledge and belief such information plans and specifications (specifications other than Standard Specifications Agency) as described above were prepared by me or under my direction. | on is true, complete and accurate. |
| | Engineer Name: Dwayne Gillian | Seal) (Seal) (Se |
| | Registration Number: 062 - 048002 (3 digits) (6 digits) Firm: V3 Companies of Illinois, Ltd. | LICENSED PROFESSIONAL ** ENGINEER OF LINOIS INTERNATIONAL ** |
| | Address: 7325 Janes Avenue | _ KLINOIS BREETEN |
| | City: Woodridge State: IL zip: 60517 | Phone No: (630) 724-9200 Date: 06-05-06 |
| | Signature X Juliuse I Juliuse | Date: 00 03 00 |
| 7. | | |
| | 7.1 Certificate by Applicant(s) I/We hereby certify that I/We have read and thoroughly understand the condition and am/are authorized to sign this application in accordance with the Rules and Control Board. I/We hereby agree to conform with the Standard Conditions and made part of this Permit. | Regulations of the Illinois Pollution |
| | 7.1.1 Name of Applicant for Permit to Construct: V3 Monee, LLC BY: U | 3 Nearly CO LLC |
| | | 115; MANAGER |
| | Address: 7325 Janes Avenue | |
| | | Zip Code: 60517 |
| | | e: 6-5-06 |
| | Printed Name: Brian Blackmore Pho | one No: 630-724-1200 |
| | Title: VICE PRESIDENT | |
| | Organization: U3 REACTY CO LLC | |
| | | |
| | 7.1.2 Name of Apolicant for Permit to Own and Operate: Village of Monee | |
| | 7.1.2 Name of Applicant for Permit to Own and Operate: Village of Monee | |
| | | |
| | Address: Village Hall, 5130 West Court Street | in Crube: 60449 |
| | Address: Village Hall, 5130 West Court Street City: Monee State: IL Z | ip Code: 60449 |
| | Address: Village Hall, 5130 West Court Street City: Monee State: IL Z Signature X Dan Ure Da | ip Code: 60449 ite: <u>6 13 0 6</u> one No: <u>70 8 534 4465</u> |

| 7.2 Attested (Required When Applicant is a Unit of Government) | |
|--|---------------|
| Signature X Katheron M. Burkness Date: 6-13-06 Title: Village Clark Society District | · |
| Title: Vielage Clerk, Village Clerk, Sanitary District C | |
| (City Clerk, Village Clerk, Sanitary District C | lerk, Etc.) |
| 7.3 Applications from non-governmental applicants which are not signed by the owner, must be signed principal executive officer of at least the level of vice president, or a duly authorized representative. | |
| 7.4 Certificate By Intermediate Sewer Owner | |
| I hereby certify that (Please check one): | |
| The sewers to which this project will be tributary have adequate reserve capacity to transport the wastewater that will be added by this project without causing a violation of the environmental Pract or Subtitle C. Chapter I, or The Illinois Pollution Control Board, in PCB | etection a |
| Name and location of sewer system to which this project will be tributary: | |
| Will Center Rd, sewer at the intersection of Court St. | |
| Sewer System Owner: Village of Monee | |
| Address: 5130 West Court Street | |
| City: Monee State: IL Zip Code: 60449 | |
| Signature X Dave Elec Date: 6 13.06 | |
| Printed Name: Dave Else Phone No: 70 8 534 | <u>446</u> 5 |
| Title: DIR OF WATER | |
| 7.4.1 Additional Certificate By Intermediate Sewer Owner | |
| I hereby certify that (Please check one): | |
| The sewers to which this project will be tributary have adequate reserve capacity to transport the wastewater that will be added by this project without causing a violation of the environmental Properties of Subtitle C. Chapter I, or The Illinois Pollution Control Board, in PCB | otection |
| Name and location of sewer system to which this project will be tributary: | |
| Will Center Rd. sewer north of the intersection of Lilac Ave. | |
| Sewer System Owner: Aqua Illinois, Inc. | |
| Address: 1000 South Schuyler Ave. | - |
| City: Kankakee State: IL Zip Code: 60901 | |

Date:

Signature X

| Printe | d Name: | Phone No: | | | | |
|-------------|--|--|--|--|--|--|
| Title: | | | | | | |
| | ertificate By Waste Treatment Works Owner | | | | | |
| l here | by certify that (Please check one): | | | | | |
| ☑ 1. | | ject will be tributary has adequate reserve capacity to treat to twithout causing a violation of the Environmental Protection | | | | |
| □ 2. | The Illinois Pollution Control Board, in PCB | datedgranted a variance from nd operation of the facilities that are the subject of this | | | | |
| □3. | • • • | | | | | |
| | certify that, if applicable, the industrial waste of by the treatment works. | fischarges described in the application are capable of being | | | | |
| Name | of Waste Treatment Works: Aqua Itiinois Uni | versity Park | | | | |
| Waste | Treatment Works Owner: Aqua Illinois, Inc. | | | | | |
| Addre | ss: 1000 South Schuyler Ave. | | | | | |
| City: | Kankakee | State: IL Zip Code: 60901 | | | | |
| Signa | ture X | Date: | | | | |
| Printe | d Name: | Phone No: | | | | |
| Title: | | | | | | |
| | | | | | | |

Please return completed form to the following address:

Illinois Environmental Protection Agency Permit Section, Division of Water Pollution Control P.O. Bex 19276 Springfield, Illinois 62794-9276

This Agency is authorized to require this information under Illinois Revised Statues, 1979, Chapter 111 ½, Section 1039. Disclosure of this information is required under that Section. Failure to do so may prevent this form from being processed and could result in your application being denied. This form has been approved by the Forms Management Center.

| Log # | ! | |
|-------|----------|--|
| • | | |

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY DIVISION OF WATER POLLUTION CONTROL PERMIT SECTION Springfield, Illinois 62794-9276

SCHEDULE A/B

| ΑP | Serv | ATION FOR SANITARY SE rice Connection - Schedule a floly Owned or Regulated Ex | A 🔲 | <u></u> | opticable) | |
|------------|-------|--|---|-----------------------------|--|---------------------------------------|
| 1. | NAN | ME OF PROJECT: Ironhorse | e | | | |
| 2. | TYP | E OF SERVICE(S): Reside | ntial 🕱 ; Comn | nercial 🗵 ; Light Inc | lustrial (Domestic W | aste Only) 🔲 📑 |
| | Man | ufacturing : Recreation | nal 🔲 ; Other 🗵 | (check all that a | pply) sewer exten | JSON FOR |
| 3. | NAT | URE OF PROJECT: Project | t consists of: a sewer | extension 🔀 ; a sev | ver connection 🔲 | : |
| | a tru | nk sewer 🔲 💢 ; a replacen | nentsewer 🔲 ;a | relief sewer 🔲 💢 ; an | interceptor sewer | i : |
| | a ne | w sanitary sewer 🗵 . (c | heck all that apply) | | | |
| 4. | PRO | JECT LOCATION, SERVICE | E AREA AND POP | ULATION: Submit map | (s) of the service are | ea that includes the |
| | follo | wing: | | • | | |
| | 4.1 | An 81/2 X 11 inch detailed | l project location m | ap or USGS map show | ving the project with | respect to major |
| | | roadways. In lieu of this m | ap, a letter from the | Illinois Historic Preserva | ation Agency Indicati | ng compliance with |
| | | the Illinois Historic Preserva | ition Act for this proje | ct may be submitted. | | • |
| | 4.2 | The proposed sewer layout | and project location. | | | |
| | | Township 34N | Section | 122 | Range | 13E |
| | 4.3 | Residential and/or non-resi | idential areas and the | heir associated waste l | oads to be immedia | tely served by the |
| | | sewers of this project. | | | | |
| | 4.4 | Potential residential and/or | non-residential area | s and their associated | loads must be indu | ided in the overall |
| | | design of the sewers of this p | p roject . | | | |
| 5 . | | FILITIES PLANNING AREA | | | constructed entirely | within the Facilities |
| | Plan | ining Area (FPA) boundaries | . Name of FPA: <u>Dee</u> | r Creek S.D. | | · · · · · · · · · · · · · · · · · · · |
| 6. | TYP | E OF DEVELOPMENT: THE | he following design | oriteria should be used | in estimating the po | oulation equivalent |
| | | .) of a residential building: | | | | |
| | | , | | | | |
| | | clency or Studio Apartment | =1 P.E. =1.5 P.E | | ntities of sewage flows and in Appendix B, Table | |
| | 2 B | edroom Apartment edroom Apartment | = 3 P.E. | | dards for Sewage Work | |
| | 3 13 | edroom Apartment de Family Home | =3 P.E. =35 P.E. | | | |
| | | alle Home | = 2.25 P.E. | | | |
| | | | | | | |
| | 6.1 | RESIDENTIAL BUILDINGS | 3: Number of building | g(s); | | |
| | | Number of single family dwe | - ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' | | | |
| | | Estimated total population e | iquivalent 2205 | |) SEE ATTACHA | |
| | | * Please provide an itemize | | | | , 2 and 3 bedroom |
| | | units; the total P.E. for the e | ach building and the | Total M.E. for multiple fai | THY OWELLINGS. | |

IL 532-0011 WPC 151 Rev. 6/03

| 6.2 | NON | N-RE | SIDEN | TIAL BUI | LDIN | GS: Des | cribe t | ise of buildi | ng(s) | | | ما المساور الم |
|------|---------------|----------------|--|---|--|---|--|--|--|---|------------------|--|
| | Со | mme | ercial a | reas withir | the : | service ar | ea. | | | | | |
| | Pri | ncipa | l produ | ict(s) or ac | tivitie | s | | · | | - | | |
| | Re | tail | | | | | | | | | • | |
| | L | | | | | (* | L | | -i- Di | | | |
| | Nun | nber | of non- | residentia | Dunc | ing(s) to | De ser | vea unaer t | nis Permit | | - | |
| | | | | iquid waste estic are p | | | | | □ produced | l Inside the | building | g(s). If liquid wastes |
| | Esti | mate | d numl | ber of emp | loyee | s | | _; Estimate | d number of o | ccupants (t | transien | ts) |
| | | | | • | | • | • | • | nt is 100 gall | ons of sew | age pe | r day, containing 0.17 |
| | pour | nds c | of BOD | _s and 0.20 | pour | ds of sus | pende | d solids). | | | | |
| | Flov | v P.E | | 287 | ; BO | D P.E | 28 | 37 ; S | ispended Soli | ds P.E | 287 | |
| 6.3 | Tota | | _ | | | | - | = | | | | GPD; Design Max. |
| | | Flov | w | 874,589 | | GPD; P | .E | 287 | BOD; P.E | Ē2 | 87 | Suspended Solids |
| 6.4 | P.A | . 93- | 32) red | quires the | Ager | icy to col | llect a | fee for cer | tain applicatio | ns for the | installa | i/12.2, as amended by flon of sanitary sewer ule shall apply: |
| | | | Dollars | ; | | | P | opulation E | quivalents | | | |
| | | 100 400 | | | | | | 1 2 - 20 |) | | | |
| | | 800 | | | | | | 21 - | • | | | |
| | | 1200 | _ | | | | | 101 - | | | | |
| | - (| 2400 |)) | | | | | 500 (| r more | | - | |
| "Tre | asul plove | er, S e Ide | tate o | f Illinois, i | Enviro er (Ft | onmental IN) appe | Prote aring | ction Permi on the face | t and Inspec | tion Fund" Ind submit | with the along w | check made out to: ne applicant's Federal rith this schedule. Any rin part. |
| | a) | Anv | Departunit of The orgrants The unanoth Include | local gove ost of the i or loans, init of loca er person le a certif | mcy of mme nstall feder l gove (exce ied o | r Unit of ant where ation or eal grants and the emment in | State (all of the standard or load or | on is paid w is, or any ex I given mor nts or loans | conditions are though the community of the community of the condition the condition of the conditions of the conditi | nies of the preof; ed or paid, nts or loans | either | ocal government, state in whole or in part, by s which authorize the |
| | | | | , | | (Sian | ature f | or Unit of G | overnment) | | | |
| | | | hereb | y certify th | at sul | | | | (c)(1) have be | en met. | | |

6.5 A \$1,000 fee shall be required for any industrial wastewater source that does not require pretreatment of the wastewater prior to discharge to the publicly owned treatment works or publicly regulated treatment works.

| 7. | DEVIATION FROM DESIGN CRITERIA: The design criteria for sewers are contained in the "lilinois Recommended Standards for Sewage Works", Current Edition. This submittal does does not _\iii include deviations from said criteria. If deviations are included, justification for said deviations must be attached. | | | | | | | | |
|------------|---|--|-----------------------|-------------------|-------------------|-----------------|--|--|--|
| 8. | INFILTRATION/EXFIL day. | TRATION LIMITS: | 200 gallor | ns per inch diam | eter of sewer pip | oe per mile per | | | |
| 9. | SUMMARY OF SEWE | ERS: | | | | | | | |
| | | e drawings for all sanitan | | | | | | | |
| | | iter source serves more to mestic waste is produced | | | | | | | |
| | publicly- regulated sev | | a or where the connec | aiori is not unec | t to either a pur | DICIY-OWNED OF | | | |
| | | Camilas Camasatia | no fluidi | | | -1 | | | |
| Pip | e size – inches | Service Connection | FORCE | cly Owned or R | egulated Exten | sions | | | |
| | | | MAIN 8 | 12 | 12 | 8 | | | |
| Tot | al Length feet | | 2800 | 1078 | 20 | 20 | | | |
| | n. slope used - % | | 0 | 0.22 | .22 | .45 | | | |
| Ма | x. slope used - % | | 2 | 0.22 | .22 | .45 | | | |
| fee | | | 5 | 6 | 6 | 6 | | | |
| Pip | e Material & Specs. | | PVC C900 ANSI C150 | PVC SDR 35 | PVC SDR 26 | PVC SDR 26 | | | |
| Joi | nt Material & Specs. | | ASTM D3139 | ASTM D3212 | ASTM D3212 | ASTM D3212 | | | |
| To | tal Manholes | | 2 | 4 | 0 | 0 | | | |
| | x. Distance Between inholes | | 1500 | 400 | 0 | 0 | | | |
| Pip | B, or C per ASTM | | N/A | N/A | N/A | N/A | | | |
| Fle (IA | dding Class for exible Pipe , IB, II, or III per TM 2321-89) | | Class II | Class II | Class II | Class II | | | |
| 10 | 9.1 Is the project located in a flood plain? YES NO If yes, contact the Illinois Department of Natural Resources, Division of Water Resources Management for further permit requirements. 9.2 Water tight manhole covers used on all manholes where the manhole tops are below cover or where the tops may be flooded by surface runoff or high water? YES NO | | | | | | | | |
| ίŪ | 10. EROSION CONTROL: The design criteria for Erosion Control are contained in the "Illinois Urban Manual" Current Edition, distributed by the National Resource Conservation Service. This submittal does design does not does not does not deviation from said criteria. If deviations are included, justification for said criteria must be attached. (See instructions for Schedule P to determine if Schedule P must be submitted.) | | | | | | | | |

| 11. | EXIS | TING SEWER SYSTEM: | |
|-----|--------|--|--|
| | А. Т | 2. existing combined sewer 5. propose | ed combined sewer ed sanitary sewer ed combined sewer |
| | | If permitted but not constructed and operational provide permit number | · |
| | | Size and location of downstream sewer(s): 15" at the intersection of Will Center Rd. and Crete-Monee Rd | *************************************** |
| 12. | | ER SUPPLY PROTECTION: The horizontal and/or vertical separation between accordance with Section 370.350 of the Illinois Recommended Standards for Se | • |
| | for ea | ocation of proposed and existing watermain(s) must be shown in both the plan a ach water-sewer line crossing and at all locations within 10 feet horizontal distan led drawing(s) for crossings, either typical or site-specific, shall be shown on the | ce of the proposed sewer line. |
| | 12.1 | HORIZONTAL SEPARATION: All sewer line(s) is(are) 10 feet from water line(s | YES 🗵 NO 🗖 |
| | | If no, provide justification AND describe the precautionary features against cont | amination |
| | • | All proposed forcemain(s) 10 feet from water line(s) YES ☒ NO ☐ N/A | |
| | 12.2 | VERTICAL SEPARATION: A. The water line(s) is(are) at least 18 inches above the sewer line(s) YES 12.2,B and provide justification below as to why this is not possible and destaken to prevent contamination. B. The water line(s) is(are) above the sewer line(s) but less than 18 inches YE with 12.2.C and provide justification below as to why this is not possible and measures taken to prevent contamination. C. The water line(s) is(are) at least 18 inches below the sewer line(s) YES justification below as to why this is not possible and describe precautionary contamination. Justification and precautionary measures: | cribe precautionary measures S □ NO ☒ . If no, continue I describe precautionary NO □ . If no, provide |
| | | There is only one crossing where the watermain crosses below the sewer is sanitary sewer will be of watermain quality. | ne. In this location the |
| | 12.3 | Proximity to wells, reservoirs, and other potable water sources: YES \ N/A If Yes, Minimum distance feet. Describe precautionary measures | |
| | | Location of all potable water sources shown on plan sheets. YES NO | NO KNOWN SOURCES 🗵 |
| 13. | PIPE | AND MANHOLE TESTING: | |
| , | ls in | iltration testing included in plans, specifications, or special provisions? | YES 🗌 NO 🗵 |
| | | filtration test included in plans, specifications, or special provisions? | YES 🖾 NO 🗆 |
| | | testing included in plans, specifications, or special provisions? | YES X NO |
| | Leak | age testing for manholes included in plans, specifications, or special provisions? | YES 🗵 NO 🗖 |

| 14. | FLEX | BLE PIPE TESTING: |
|-----|---------|---|
| | Is defi | ection test included in plans, specifications, or special provisions in accordance with the Illinois Recommended |
| | Standa | ards for Sewage Works, Current Edition? YES 🗵 NO 🔲 N/A 🗀 |
| 15. | MISC | ELLANEOUS REQUIREMENTS: |
| | | illowing requirements should be included on the plan sheets where so indicated. For items where this is not ied, the requirements may be on the plan sheets, in the specifications, or in the special provisions: |
| | 15.1 | Standard Specifications for Water and Sewer Main Construction in Illinois, Current Edition, govern the construction of this project. YES X NO If no, please provide specifications. |
| | 15.2 | Pipe and joint ASTM/AWWA designation included on plan sheets. YES X NO |
| | 15.3 | All flexible gravity sewer pipe installed in accordance with ASTM D2321-89; embedment materials for bedding, |
| | | haunching, and Initial backfill to at least 6 inches over the top of the pipe with Class IA or IB or II or III; |
| | | processed material produced for highway construction used in the project classified according to particle size, shape, and gradation in accordance with ASTM D2321-89, Section 9 and Table 1. YES 🔯 NO 🔲 N/A 🔲 . |
| | 15.4 | All rigid gravity sewer pipe installed in accordance with ASTM C12 and bedding material Class A, B, or C. |
| | | YES NO N/A 🗵 |
| | 15.5 | Pickholes in all manholes likely to be flooded not larger than 1 inch in diameter and of the concealed type. YES NO N/A |
| | 15.6 | All manholes numbered. YES ☒ NO ☐ N/A ☐ |
| | 15.7 | Match lines shown on all plan sheets. YES ☒ NO ☐ N/A ☐ |

This Agency is authorized to require this information under Illinois Revised Statutes, 1979, Chapter 111 1/2, Section 1039. Disclosure of this Information is required under that Section. Failure to do so may prevent this form from being processed and could result in your application being denied. This form has been approved by the Forms Management Center.

Illinois Environmental Protection Agency Division of Water Pollution Control, Permit Section Post Office Box 19276 Springfield, Illinois 62794-9276

Schedule F - Sewer System Lift Station / Force Main

| 1. | Name | of Project: Ironhorse | · | | | | - | |
|---|---|--|-------------------------|------------------|-------------------------|--------------------|------|--|
| 2. | Design | Population: Area to be served200+/- | acres. Popu | lation to be se | rved | 2492 P.E | | |
| 3. | Design | Flows: Design Average Flow173 | gpm. Desigr | ı Maximum Fl | 5w 60 | 7 gpm. | | |
| 4. | □or | ation will serve: ally separate sewers | rs Separa | e and combin | ed sewers | | | |
| 5. | | ation is designed to serve: ly the population indicated above \textsqrt\textsq | ated additional | waste contrib | ution of | F | P.E. | |
| 6. Force Main: Size of Force Main (inches) 8" Total Length (feet) 2800' Pipe material specifications PVC C900 Joint specifications ASTM D3139 Are air relief valves provided at high points? Yes No Are clean-outs (blow-offs) provided at low points? Yes No | | | | | | | | |
| 7. | Design | Head (Total Dynamic Head): Static Head: Discharge Elevation: | 777.76 | | | | | |
| | - 79 | | 738.99 | | | | | |
| | | Static Head | 38.77 | Fee | t | | | |
| | B) | Pipe friction loss: | 24.00 Feet at "C" = 130 | | | | | |
| | C) | Minor Losses (Valves, etc.) | 5.7 | Fee | t at "C" = 10 | 9 | | |
| | | Total Bynamic Head (A+B+C) | 68.47 | Fee | t | | | |
| 8. | Pumps | | N/A | Fee | t. | | | |
| | umber of umps | Type of Pump | GPM per Pump | at TDH (Feet) | H.P. of Each Pump | Pass 3" Spheres | | |
| | 2 | Flyght NP 3153 Submersible Solids Handling | 650 | 72.6 | 20 | ⊠Yes □No | | |
| | | Pumps | | · | | ☐Yes ☐No | | |
| | | | | | | ☐Yes ☐No | | |
| | | apacity of Lift Station650 gpm g Capacity with Largest Unit Out of Service | | | | feet of TDH. | | |
| C. | Are all p | numps with positive suction head and/or self prin | ning? | | ⊠Y. | es 🗆 No | | |
| d. | Have provisions been made to detect shaft seal failure or potential shaft seal failure? | | | | | | | |

Schedule F - Sewer System Lift Station / Force Main Page 2

| 9. | Valves | | | |
|---|--|-------------------|----------------|---------------|
| a. | Discharge Pipe ☐ Gate ☒ Check ☒ Other Eccentric Plug Valve | | | al and a feet |
| Ð. | Suction Line (if applicable) Gate Check Other | | | |
| | | | | |
| |). Wet Weil | | | |
| | | gallons | | |
| | Detention time at design flow = 30 minutes | 5714 | 6764 - | |
| C. | Are there provisions for pump removal? | ⊠Yes | ∏l/40 | |
| | | | | |
| | 1. Buoyancy Calculations | 4000 b b c | C7. | |
| | Have buoyancy calculations been submitted? Depth of groundwater table: 10 feet below the ground surface. | ⊠Yes | UNG | LIN/A |
| IJ. | Depth of groundwater table: 10 feet below the ground surface. | | | |
| 4 | D. Accompatibility | | | |
| | 2. Accessability | 157 | <i>7</i> 7 May | |
| a. | Is the pump station accessible by an all weather road? | × Yes | □ 140 | |
| | | | | |
| | 3. Ventilation | | | |
| a. | Wet Well: | □Vac | 521Ata | |
| | Continuous with at least 12 complete air changes per hour? Intermittent with at least 30 complete air changes per hour? | ☐Yes ☐Yes | = | |
| b. | Dry Well (if applicable): | | <u>6-1</u> 110 | |
| | Continuous with at least 6 complete air changes per hour? | ☐Yes | □No | ⊠N/A |
| | Intermittent with at least 30 complete air changes per hour? | Yes | | ⊠N/A |
| C. | Is portable ventilation equipment available for use at all times? | ∐Yes | ∐No | |
| | | | | |
| | 4. Emergency Operations | _ | | |
| a. | In case of power failure, is an alternate power supply available? | ⊠Yes | LJNo | |
| ь. | If yes, please describe the source: Permanent Generator Is a portable pump, with adequate pumping capacity, available for use at all times? | TYes | □No | |
| | Has a riser from the force main been provided to hook-up portable pumps? | ⊠Yes | | |
| ď. | Length of time between a power failure and commencement of pumping by emergency equip | | | eous |
| | Estimated time interval before damage or sewer backup will occur | | | |
| | m | ومنشاها الاحتادات | | |
| f. | Type of alarm system proposed: | nea paw | er | |
| g. | Are personnel available at all times to operate emergency equipment? | □Yes | □No | |
| si. | | | | |
| 4 | 5. Flow Measurement | | | |
| - | Type of flow measurement provided: Flow meter Elapsed time meters ITR | | | • |
| æ, | Type of issue tropoditions broaders Edit of their Statement and theory | | | |
| 4 | C. Campition on with Ulivide Discommonded Standards for Sciusias Works | | | |
| | 6. Compliance with Illinois Recommended Standards for Sewage Works | 57Vaa | □No | |
| a. | Can the pump station remain operational during the 25 year flood? Is the pump station protected from physical damage during the 100 year flood? | ⊠Yes ⊠Yes | | |
| D. C. | the control of the state of the | ⊠Yes | ∏No | |
| ٠, | requirements for Class I, Group D, Division I locations? | | | |
| d. | Have provisions been made to automatically alternate the pumps? | ⊠Yes | □No | |
| e. Is the motor control center located outside and protected by a conduit seal? | | | □No | |
| f. | Can the motor be electronically disconnected without disturbing the soul? | ⊠Yes | □No | |
| | | | | 7 |
| 763 | A service Level trade of the property this information and at Illinois Dayland Cintutes 1070 Charles 1119 Santine 1119 | Disconcusion | of this | • |

This Agency is authorized to sequire this information under fillnois Revised Statutes, 1979, Chapter 1112, Section 1039, Disclosure of this information is required under that Section. Fallure to do so may prevent this form from being processed and could result in your application being denied. This form has been approved by the Forms Management Center.

This Agency is authorized to require this Information under Illinois Revised Statutes, 1979, Chapter 111 1/2, Section 1039. Disclosure of this information is required under that section. Failure to do so may prevent this form from being processed and could result in your application being denied.

IL 532-1627 WPC 533 For IEPA Use:
LOG#
DATE RECEIVED:

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY DIVISION OF WATER POLLUTION CONTROL PERMIT SECTION Springfield, filinois 62794-9276

Schedule P - Erosion Control

| 1. | Name of Project Ironi | norse | | | |
|-----|--|------------------------|---------------------------|---------------------------------|--------------------------------------|
| 2. | Total area disturbed by excavation: 2 +/- | | | | |
| 3. | Summary of erosion control practices: | | | | |
| | | | | Area Controlled (Sq. Ft.) | Permanent (P) or Temporary (T) |
| | Vegetative Control . | 87120 | (Sq. Feet) | 87120 | Р |
| | Interceptor Ditches | | (Feet) | | |
| | Berms | | (Feet) | | |
| | Sediment Basins | | (Cu. Yd.) | | |
| | Debris Basins | | (Cu. Ft.) | | |
| | Desilting Basins | | (Cu. Ft.) | | |
| | Silt Traps | | (Cu. Ft.) | | |
| | Mulching and Matting | | | | |
| | Other | Silt Fence | (Indicate) | 9000 | <u>T</u> |
| 4. | Attach topographical d | r plan maps of co | nstruction area and ind | icate erosion control prac | alces. |
| 5. | Drainage area (above and including construction site) | | | | |
| 6. | Slope categories of co | nstruction site: | | | |
| | | | Area (acres) | Disposition of collected sec | of diment |
| | 6.1 0 - 2% slope | | | | |
| | 6.2 2 - 4% slope | | | | |
| | 6.3 4 - 6% slope | | | | |
| | 6.4 6% slope or | greater 2+/- | | Collected sediment plac | ed onsite. |
| Ple | ease check one below. | | | | |
| | ☑ Erosion contro | l practices identified | l above will be construct | ed in accordance with litino | ois Urban Manual, 1995. |
| | OR . | | | | |
| | ☐ Plans or specifications for the above referenced erosion control practices are attached. | | | | |

COMMERCIAL

28.7 AC X 10 P/AC = 287 PE

RESIDENTIAL

462 UNITS X 3.5 PE/UNIT = 1617 PE

DFFSITE

588 PE

TOTAL PE = 2,49Z

100 GAL/PE/DAY

DESIGN AVERAGE FLOW = Z492 PE × 100 GAYPE/DAY = Z49,200 GPD

PEAK DAY FACTOR = $18 + \sqrt{\frac{2472}{1000}} = 3.51$

DESIGN MAX FLOW = 874,589 GPD

COMPUTED:

EMW

DATE

5-17-06

CHECKEO



PROJECT:

PONHORSE

BHEET NO:

ENGINEERING CALCULATIONS



Project Name: Ironhorse

Wet Well Buoyancy Calculations

| | Control of the Contro |
|------------------------------------|--|
| A. General Information | Units |
| Specific Weight of Water | 62.4 lbs/c.ft. |
| Specific Weight of Concrete | 150 lbs/c.ft. |
| Specific Weight of Soil | 110 lbs/c.ft. |
| Water Table Elevation for Analysis | 767.8 Feet |

| B. | Flat Top Information | |
|----|---|-------------|
| _ | Top of Structure/Flat Top Elevation | 777.80 Feet |
| | Diameter of Flat Top | 6.00 Feet |
| 1 | Radius of Flat Top | 3.00 Feet |
| | Thickness of Top Stab | 13 Inches |
| 1 | | 1.08 Feet |
| | Void Area in Top Stab for Hatches, etc. | 18:50 Sq.Ft |
| | Total Volume of Concrete in Flat Top | 11 C.Ft. |
| Г | Weight of Flat Top | 1,588 Lbs. |
| | | |

| C. Banel Section Information | 1. 15.40 第44 集化 |
|---|-----------------|
| Top of Barrel Section Elevation | 776.72 Feef |
| Invert of Well Well | 738.99 Feet |
| Wet Well Inner Diameter | 6 Feet |
| Wet Well Inner Radius | 3 Feet |
| Wet Well Wall Thickness | 7 Inches |
| | 0.58 Feet |
| Wet Well Outer Diameter | 7.17 Feet |
| Wet Well Outer Radius | 3.58 Feet |
| Total Volume of Concrete in Barrel Sections | 455 C.Ft. |
| Weight of Barrel Sections | 68,274 Lbs. |

| D. 8 | ase Information | |
|------|---------------------------------|------------|
| (| oncrete Base Diameter | 8.5 Feet |
| 1 0 | Concrete Base Radius | 4.25 Feet |
| | Concrete Base Thickness | 1 Feet |
| 7 | otal Volume of Concrete in Base | 57 C.Ft. |
| V | Veight of Concrete Base | 8,512 Lbs, |
| 1 | Religite of Control David | |

| SUMMARY OF FORCES | |
|----------------------------|-------------|
| Weight of Structure (Down) | 76,374 Lbs. |
| Buoyant Forces (Upward) | 76,060 Lbs. |
| Resident | 2,314 Lbs. |

Water Table Elevation is based on TSC Report.
Boring B-1 revealed water at 10' at the end of the boring.
No 24 hour water table elevation was given. The date of the boing was 8-21-04.

| Total Volume of Water Displaced by Wet Well 1,16 | 2 C.Ft. |
|--|---------|
| Buoyant Force from Wet Well 72,5 | 9 Lbs. |

| Total Volume of Water Displaced by Bas | e 57 C.Ft. |
|--|------------|
| Buoyant Force from Base | 3,541 Us. |



Voice (217) 782-4836

1 Old State Capitol Plaza • Springfield, Illinois 62701-1507 • Teletypewriter Only (217) 524-7128

Will County

PLEASE REFER TO:

IHPA LOG #010111704

Monee

11WI3105, 11WI3106, 11WI3107, 11WI3108, 11WI3109, 11WI3110, Section 22, T34N/R13E

COEC

New Construction; 130-Acre South Parcel

January 3, 2005

Nathan Groff V3 Consultants 7125 James Avenue Suite 100 Woodridge, IL 60517

Bear Mr. Groff:

Acre(s): 139 Site(s): 6

Archaeological Contractor: AGS/Balck

Thank you for submitting the results of the archaeological recommaissance. Our comments are required by Section 106 of the National Historic Preservation Act of 1966, as amended, and its implementing regulations, 36 CFR 800: "Protection of Historic Properties".

Our staff has reviewed the archaeological Phase I recommissance report performed for the project referenced above. The Phase I survey and assessment of the archaeological resources appear to be adequate. Accordingly, we have determined, based upon this report, that no significant historic, architectural, and archaeological resources are located in the project area.

Please submit a copy of this letter with your application to the state or federal agency from which you obtain any permit, license, grant, or other assistance. Please retain this letter in your files as evidence of compliance with Section 106 of the National Historic Preservation Act of 1966, as amended.

Sincerely,

Anne B. Haaker

Deputy State Historic

Preservation Officer

AEH:DJH

cc: Cynchia L. Balek, Ph.D., Archaeology and Geomorphology Services

Voice (217) 782-4836

1 Old State Capitol Plaza • Springfield, Illinois 62701-1507 • Teletypewriter Only (217) 524-7128

PLEASE REFER TO:

THPA LOG #028081604

Модее

N. of W. Crete Rd., S. of Dralle Rd., E. of IL Route 50, & W. of S. Highland Ave., Monee,

COEC, V3C-04121,

New Construction; 74 Acre North Parcel

September 13, 2004

Biswajit Dhar V3 Consultants 732\$ James Ave., Suite 100 Woodridge, IL 60517

Dear Mr. Dhar:

The Illinois Historic Preservation Agency is required by the Illinois State Agency Historic Resources Preservation Act (20 ILCS 3420, as amended, 17 IAC 4180) to review all state undertakings for their effect on cultural resources. Pursuant to this requirement, we have received information regarding the above referenced project for our comment. Based on the information provided, we understand that no state agency funds will be expended for this proposed project, therefore this project has been classified as a private undertaking Subject to Section 6 of this Act. If state agency funds will be used, please notify us immediately.

According to the information provided concerning the proposed project, apparently there is no federal involvement in your project. However, please note that the state law is less restrictive than the federal cultural resource laws concerning archaeology. If your project will use federal loans or grants, need federal agency permits, use federal property, or involve assistance from a federal agency, then your project must be reviewed under the National Historic Preservation Act of 1966, as amended. Please notify us immediately if such is the case.

Our files do not identify any previously recorded historic properties within this proposed project area, nor is the project area within the high probability area for archaeological resources as defined in the state Act. Accordingly, this project is EXEMPT pursuant to the Illinois State Agency Historic Resources Preservation Act (20 ILCS 3420/6). An archaeological survey for your above referenced project is not required under STATE law.

Sincerely,

Anne E. Haaker

Deputy State Historic Preservation Officer

ARH

CC :